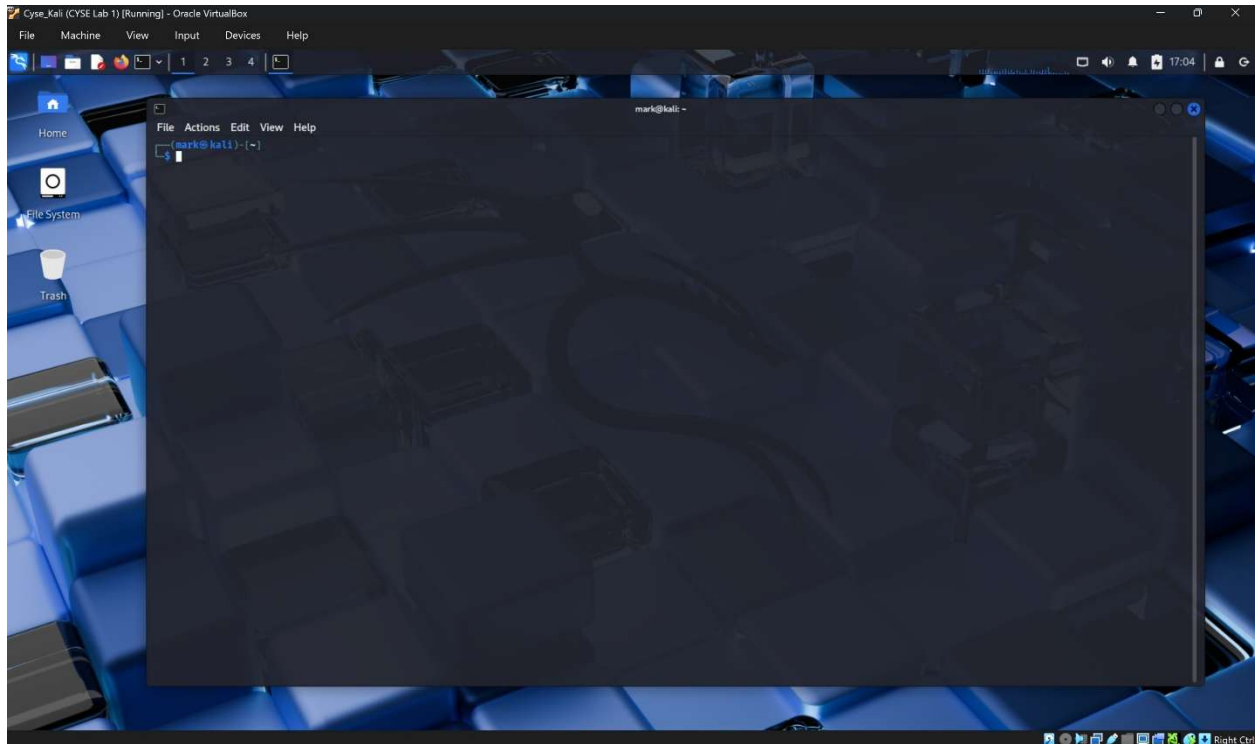
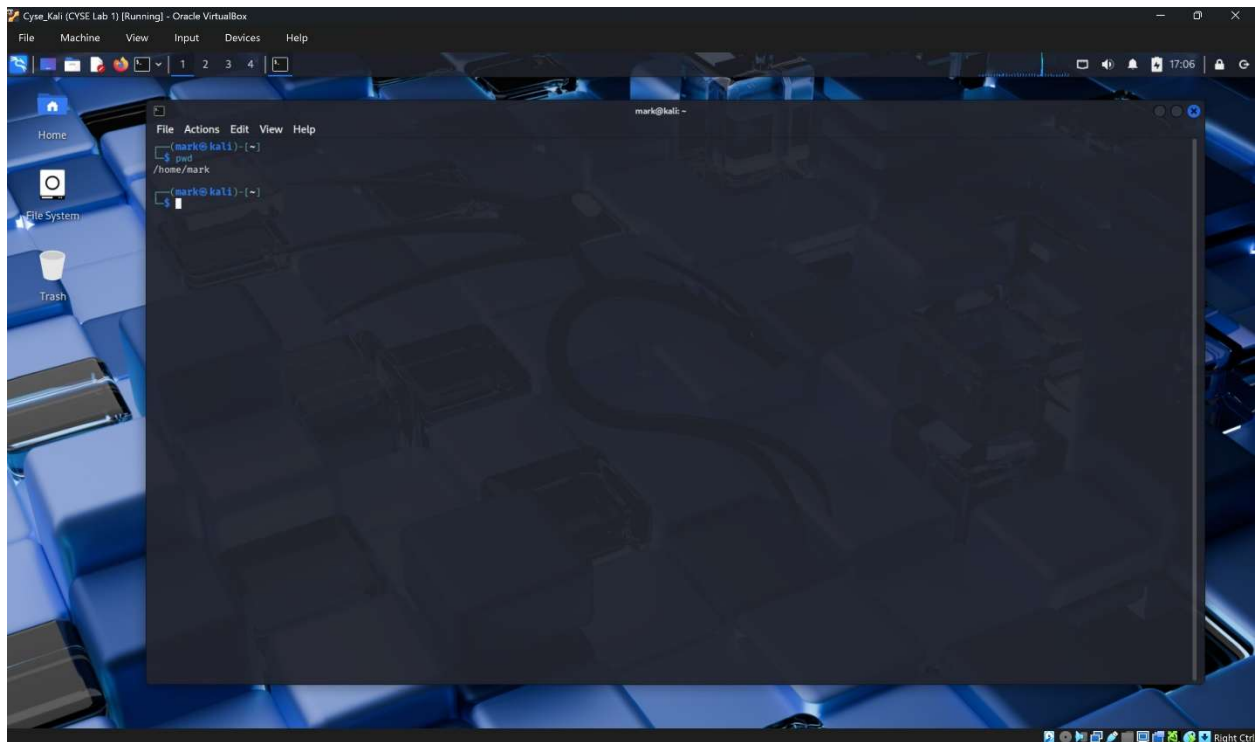


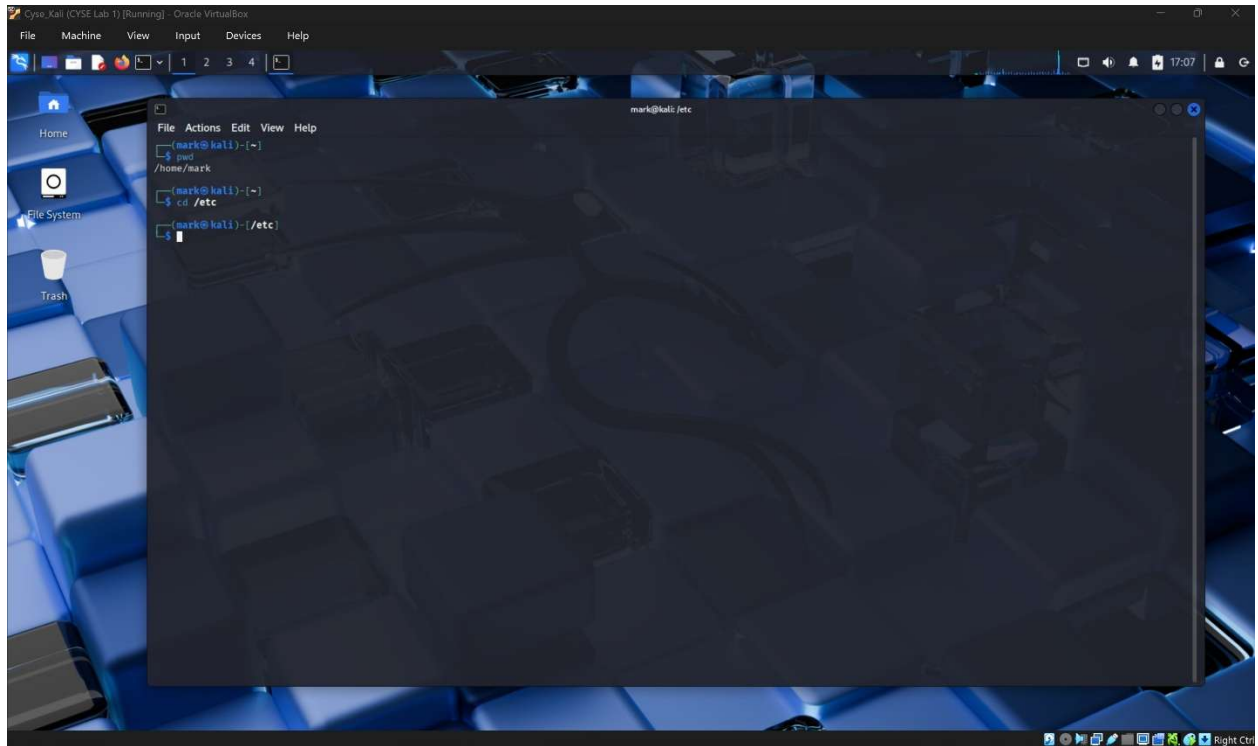
Step 1



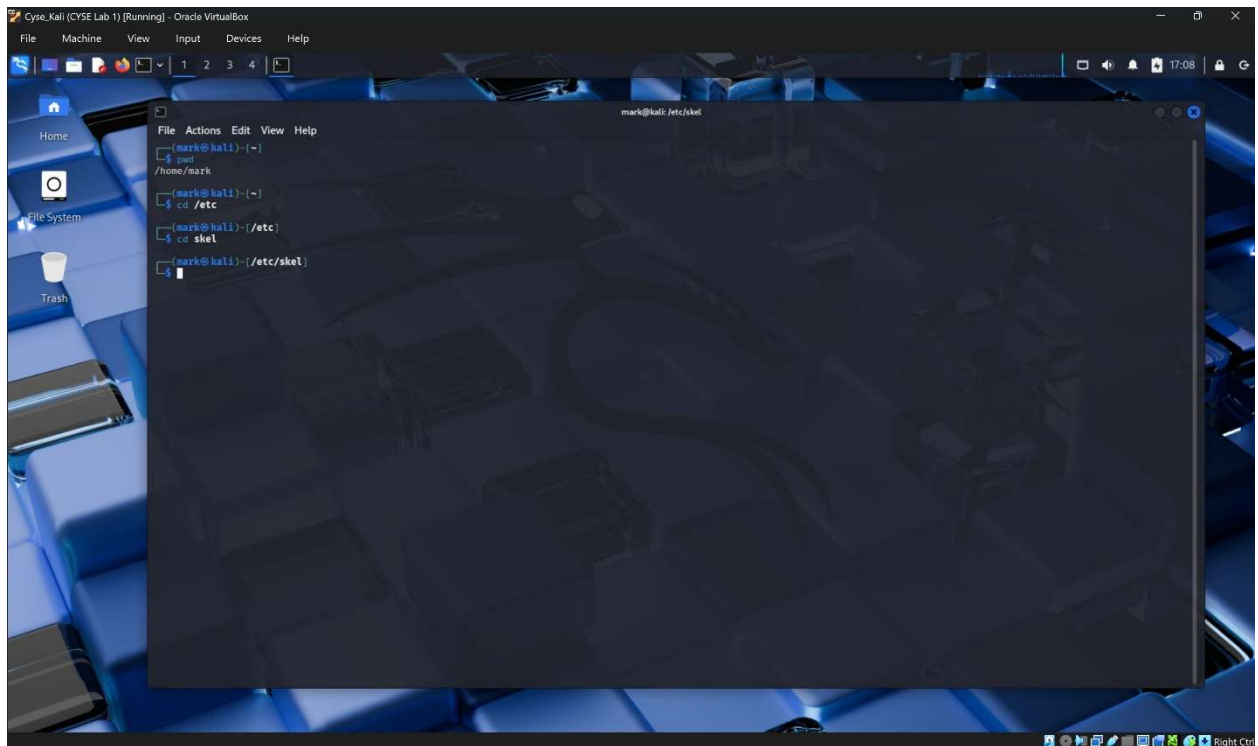
Step 2



Step 3



Step 4



Step 5

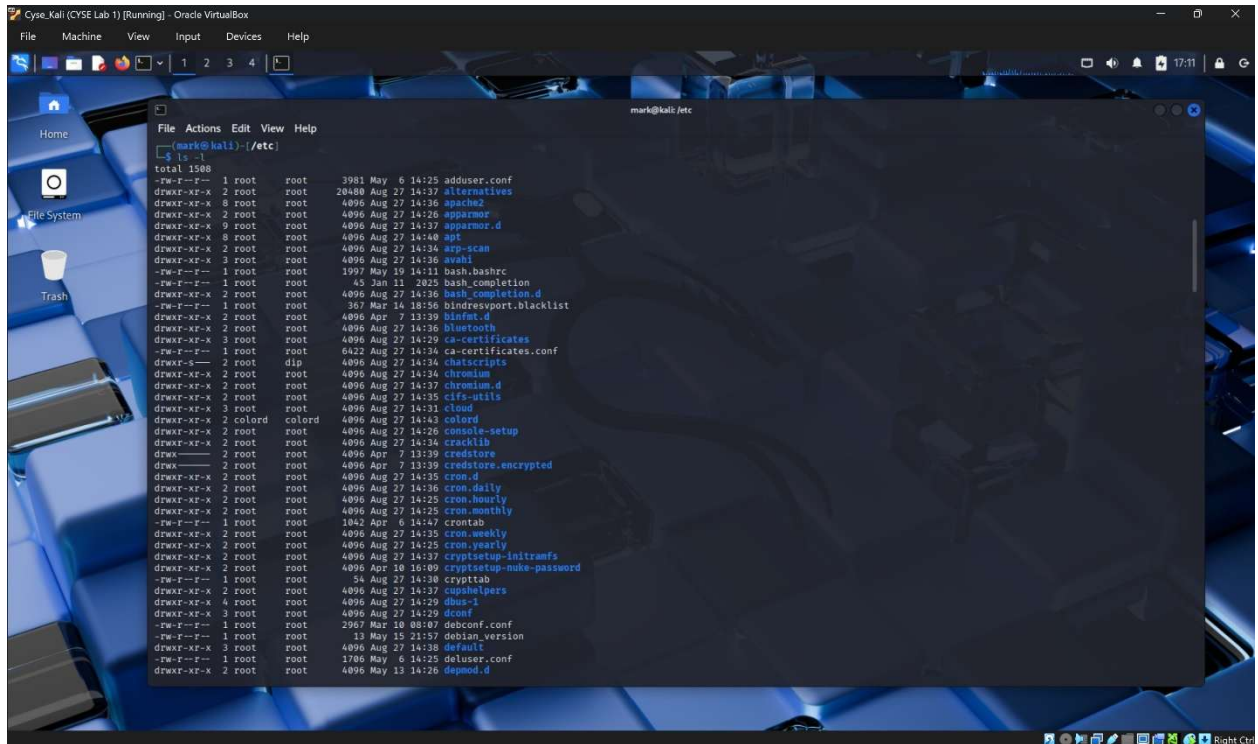


The screenshot shows a Kali Linux virtual machine running in Oracle VM VirtualBox. The terminal window is open, showing the user 'mark' navigating through the file system. The desktop environment includes icons for Home, File System, and Trash. The terminal output is as follows:

```
mark@kali: /etc
$ pwd
/home/mark
$ cd /etc
$ cd skel
$ cd ..
$ cd /etc
```

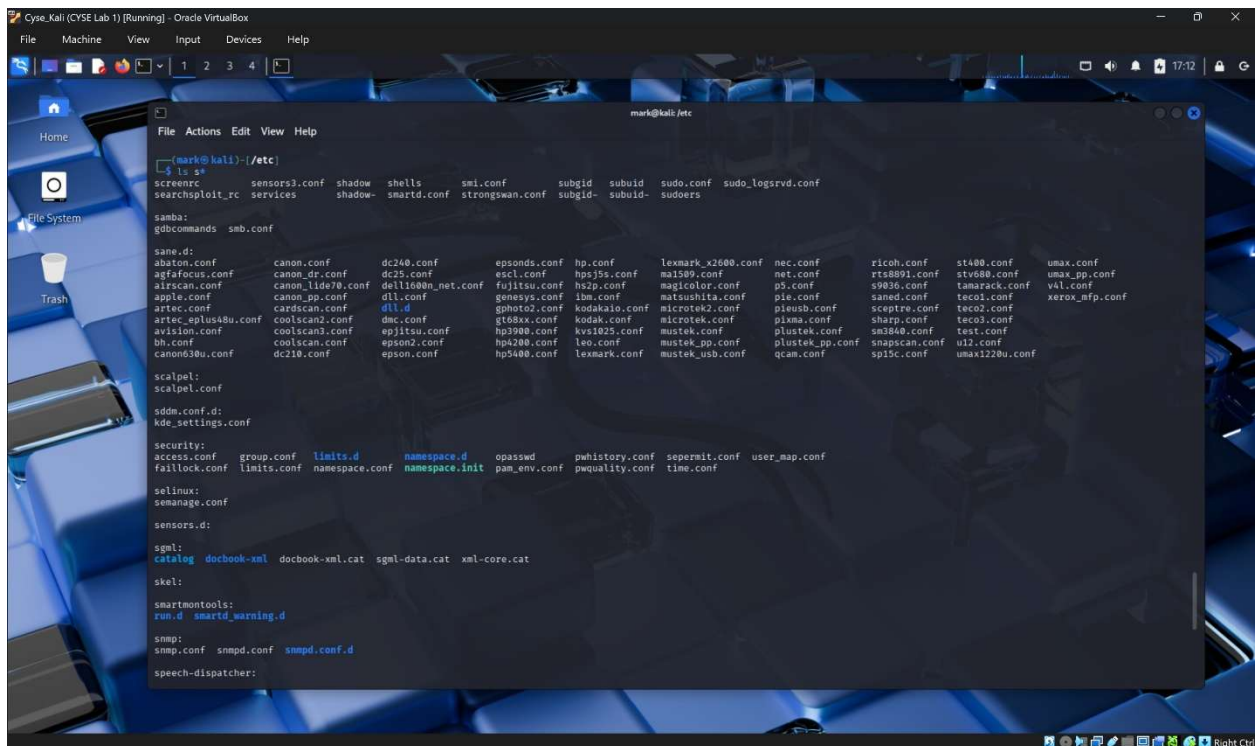
[illegible]

Step 7



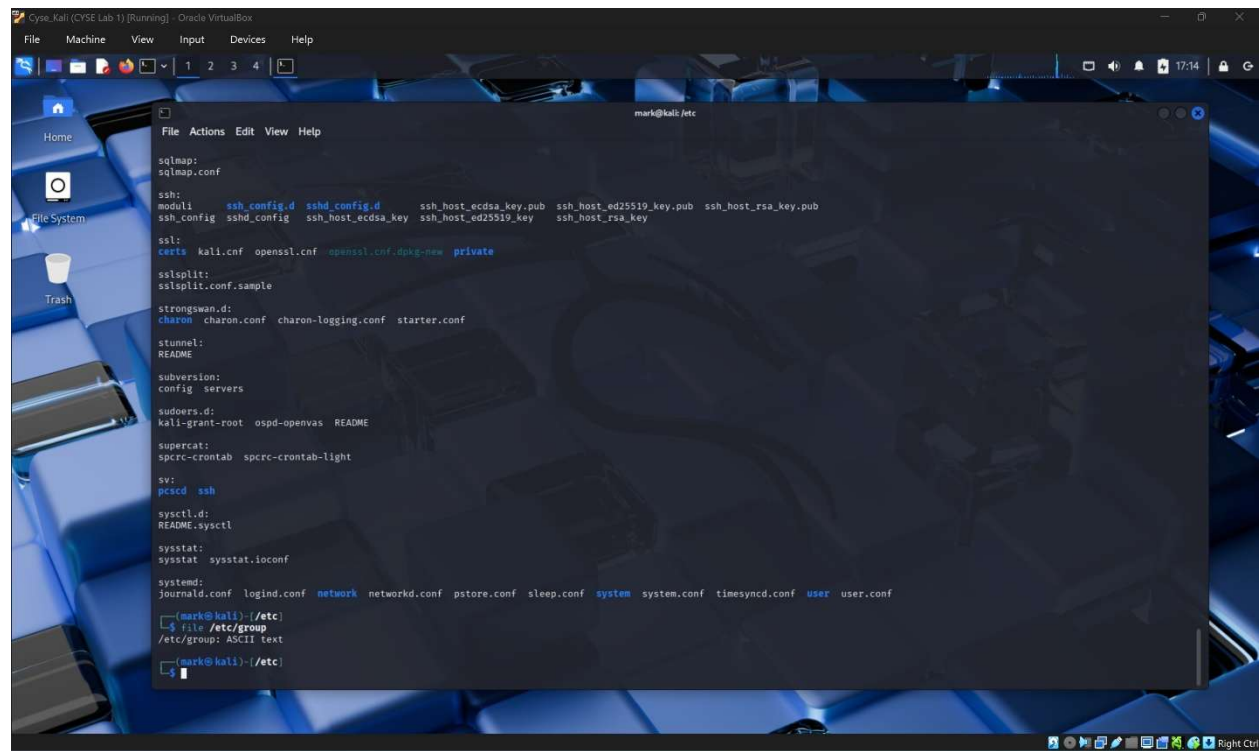
```
mark@kali:~$ ls -l
total 1508
-rw-r--r-- 1 root root 3981 May 6 14:25 adduser.conf
drwxr-xr-x 2 root root 20480 Aug 27 14:37 alternatives
drwxr-xr-x 8 root root 4096 Aug 27 14:36 apache2
drwxr-xr-x 2 root root 4096 Aug 27 14:26 apparmor
drwxr-xr-x 9 root root 4096 Aug 27 14:37 apparmor.d
drwxr-xr-x 8 root root 4096 Aug 27 14:40 apt
drwxr-xr-x 3 root root 4096 Aug 27 14:34 asp-scan
drwxr-xr-x 3 root root 4096 Aug 27 14:36 avahi
-rw-r--r-- 1 root root 1997 May 19 14:11 bash.bashrc
-rw-r--r-- 1 root root 45 Jan 11 2025 bash_completion
drwxr-xr-x 2 root root 4096 Aug 27 14:36 bash_completion.d
-rw-r--r-- 1 root root 367 Mar 16 18:56 bindresport.blacklist
drwxr-xr-x 2 root root 4096 Apr 7 13:39 binfmt.d
drwxr-xr-x 2 root root 4096 Aug 27 14:36 bluetooth
drwxr-xr-x 3 root root 4096 Aug 27 14:29 ca-certificates
-rw-r--r-- 1 root root 6422 Aug 27 14:34 ca-certificates.conf
drwxr-xr-x 2 root root 4096 Aug 27 14:34 chatscripts
drwxr-xr-x 2 root root 4096 Aug 27 14:34 chromium
drwxr-xr-x 2 root root 4096 Aug 27 14:37 chromium.d
drwxr-xr-x 2 root root 4096 Aug 27 14:35 cifs-utils
drwxr-xr-x 3 root root 4096 Aug 27 14:31 cloud
drwxr-xr-x 2 colord colord 4096 Aug 27 14:43 colord
drwxr-xr-x 2 root root 4096 Aug 27 14:26 console-setup
drwxr-xr-x 2 root root 4096 Aug 27 14:34 cracklib
drwxr-xr-x 2 root root 4096 Apr 7 13:39 credstore
drwxr-xr-x 2 root root 4096 Apr 7 13:39 credstore.encrypted
drwxr-xr-x 2 root root 4096 Aug 27 14:35 cron.d
drwxr-xr-x 2 root root 4096 Aug 27 14:36 cron.daily
drwxr-xr-x 2 root root 4096 Aug 27 14:25 cron.hourly
drwxr-xr-x 2 root root 4096 Aug 27 14:25 cron.monthly
-rw-r--r-- 1 root root 1842 Apr 6 14:47 crontab
drwxr-xr-x 2 root root 4096 Aug 27 14:35 cron.weekly
drwxr-xr-x 2 root root 4096 Aug 27 14:25 cron.yearly
drwxr-xr-x 2 root root 4096 Aug 27 14:37 cryptsetup-initramfs
drwxr-xr-x 2 root root 4096 Apr 10 16:09 cryptsetup-nuke-password
-rw-r--r-- 1 root root 54 Aug 27 14:38 crypttab
drwxr-xr-x 2 root root 4096 Aug 27 14:37 cupshelpers
drwxr-xr-x 4 root root 4096 Aug 27 14:29 dbus-1
drwxr-xr-x 3 root root 4096 Aug 27 14:29 dbus
drwxr-xr-x 1 root root 2967 Mar 10 08:07 debconf.conf
-rw-r--r-- 1 root root 13 May 15 21:57 debian_version
drwxr-xr-x 3 root root 4096 Aug 27 14:38 default
-rw-r--r-- 1 root root 1748 May 6 14:25 deluser.conf
drwxr-xr-x 2 root root 4096 May 13 14:26 depmod.d
```

Step 8

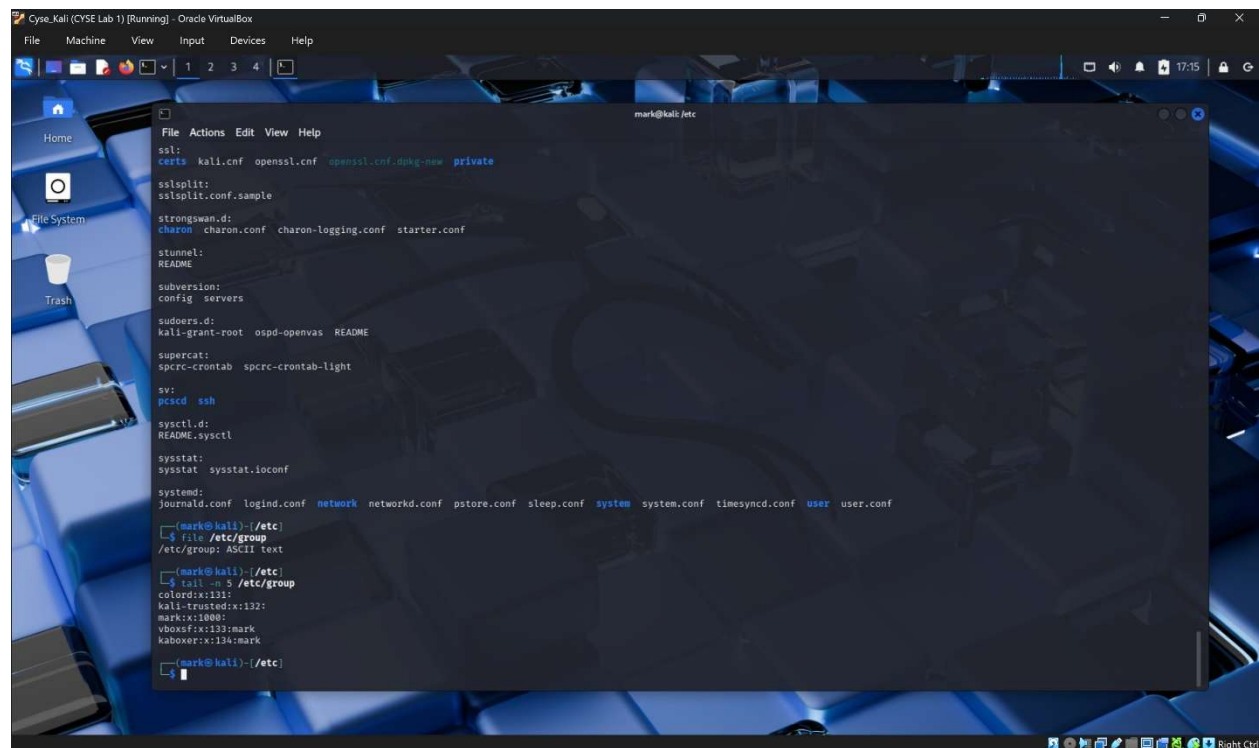


```
mark@kali:~$ ls -ls
total 1508
-rw-r--r-- 1 root root 3981 May 6 14:25 adduser.conf
drwxr-xr-x 2 root root 20480 Aug 27 14:37 alternatives
drwxr-xr-x 8 root root 4096 Aug 27 14:36 apache2
drwxr-xr-x 2 root root 4096 Aug 27 14:26 apparmor
drwxr-xr-x 9 root root 4096 Aug 27 14:37 apparmor.d
drwxr-xr-x 8 root root 4096 Aug 27 14:40 apt
drwxr-xr-x 3 root root 4096 Aug 27 14:34 asp-scan
drwxr-xr-x 3 root root 4096 Aug 27 14:36 avahi
-rw-r--r-- 1 root root 1997 May 19 14:11 bash.bashrc
-rw-r--r-- 1 root root 45 Jan 11 2025 bash_completion
drwxr-xr-x 2 root root 4096 Aug 27 14:36 bash_completion.d
-rw-r--r-- 1 root root 367 Mar 16 18:56 bindresport.blacklist
drwxr-xr-x 2 root root 4096 Apr 7 13:39 binfmt.d
drwxr-xr-x 2 root root 4096 Aug 27 14:36 bluetooth
drwxr-xr-x 3 root root 4096 Aug 27 14:29 ca-certificates
-rw-r--r-- 1 root root 6422 Aug 27 14:34 ca-certificates.conf
drwxr-xr-x 2 root root 4096 Aug 27 14:34 chatscripts
drwxr-xr-x 2 root root 4096 Aug 27 14:34 chromium
drwxr-xr-x 2 root root 4096 Aug 27 14:37 chromium.d
drwxr-xr-x 2 root root 4096 Aug 27 14:35 cifs-utils
drwxr-xr-x 3 root root 4096 Aug 27 14:31 cloud
drwxr-xr-x 2 colord colord 4096 Aug 27 14:43 colord
drwxr-xr-x 2 root root 4096 Aug 27 14:26 console-setup
drwxr-xr-x 2 root root 4096 Aug 27 14:34 cracklib
drwxr-xr-x 2 root root 4096 Apr 7 13:39 credstore
drwxr-xr-x 2 root root 4096 Apr 7 13:39 credstore.encrypted
drwxr-xr-x 2 root root 4096 Aug 27 14:35 cron.d
drwxr-xr-x 2 root root 4096 Aug 27 14:36 cron.daily
drwxr-xr-x 2 root root 4096 Aug 27 14:25 cron.hourly
drwxr-xr-x 2 root root 4096 Aug 27 14:25 cron.monthly
-rw-r--r-- 1 root root 1842 Apr 6 14:47 crontab
drwxr-xr-x 2 root root 4096 Aug 27 14:35 cron.weekly
drwxr-xr-x 2 root root 4096 Aug 27 14:25 cron.yearly
drwxr-xr-x 2 root root 4096 Aug 27 14:37 cryptsetup-initramfs
drwxr-xr-x 2 root root 4096 Apr 10 16:09 cryptsetup-nuke-password
-rw-r--r-- 1 root root 54 Aug 27 14:38 crypttab
drwxr-xr-x 2 root root 4096 Aug 27 14:37 cupshelpers
drwxr-xr-x 4 root root 4096 Aug 27 14:29 dbus-1
drwxr-xr-x 3 root root 4096 Aug 27 14:29 dbus
drwxr-xr-x 1 root root 2967 Mar 10 08:07 debconf.conf
-rw-r--r-- 1 root root 13 May 15 21:57 debian_version
drwxr-xr-x 3 root root 4096 Aug 27 14:38 default
-rw-r--r-- 1 root root 1748 May 6 14:25 deluser.conf
drwxr-xr-x 2 root root 4096 May 13 14:26 depmod.d
```

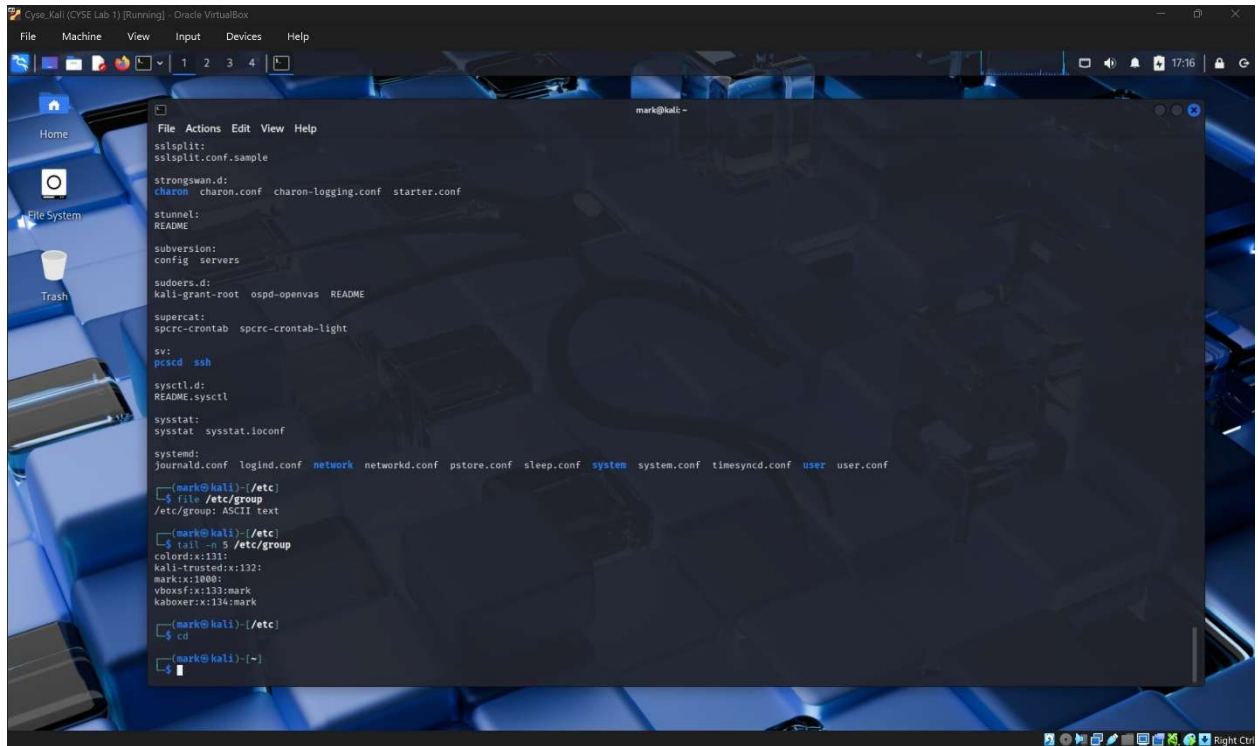
Step 9



Step 10



Step 11



```
mark@kali:~$ cat /etc/group
strongswan.d:
charon charon.conf charon-logging.conf starter.conf

stunnel:
README

subversion:
config servers

sudoers.d:
kali-grant-root ospd-openvas README

supercat:
spsrc-crontab spsrc-crontab-light

sv:
pccsd ssh

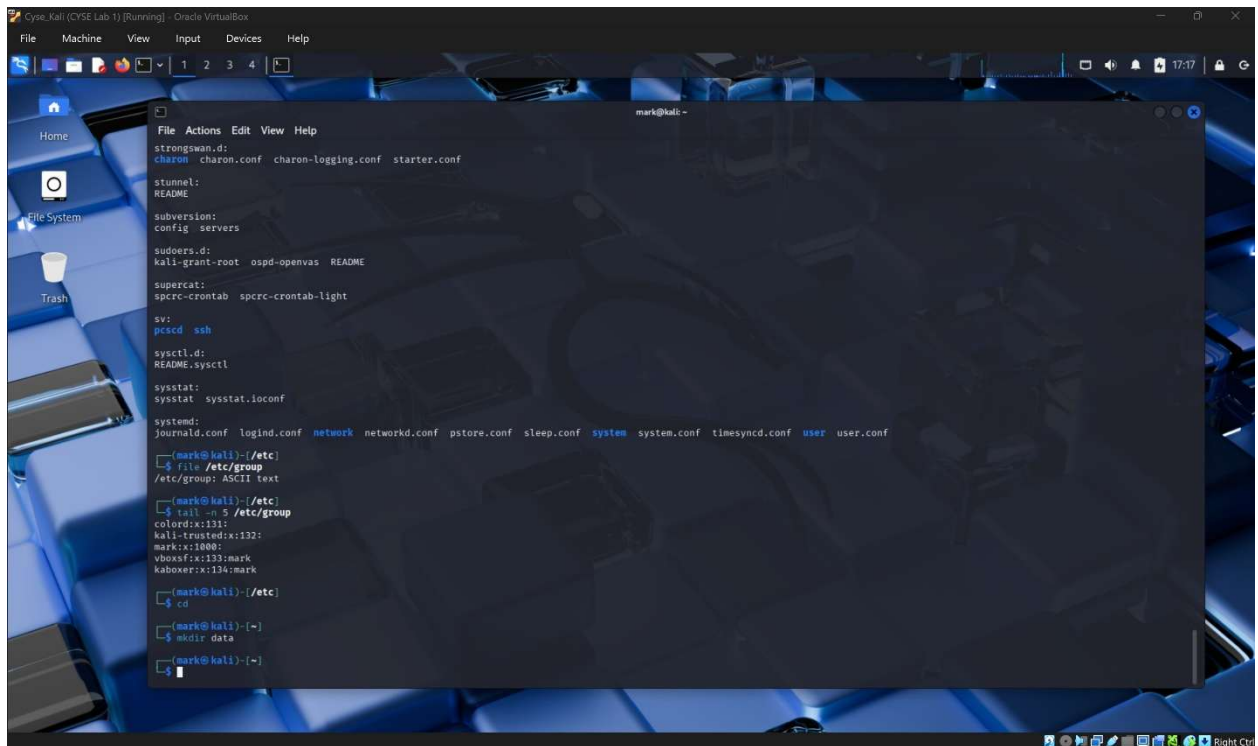
sysctl.d:
README.sysctl

sysstat:
sysstat sysstat.ioconf

systemd:
journal.conf logind.conf network networkd.conf pstore.conf sleep.conf system system.conf timesyncd.conf user user.conf

(mark@kali) ~$ cat /etc/group
/etc/group: ASCII text
(mark@kali) ~$ tail -n 5 /etc/group
colord:x:131:
kali-trusted:x:132:
mark:x:1000:
vboxsf:x:133:mark
kaboxer:x:134:mark
(mark@kali) ~$ cd
(mark@kali) ~$
```

Step 12



```
mark@kali:~$ cat /etc/group
strongswan.d:
charon charon.conf charon-logging.conf starter.conf

stunnel:
README

subversion:
config servers

sudoers.d:
kali-grant-root ospd-openvas README

supercat:
spsrc-crontab spsrc-crontab-light

sv:
pccsd ssh

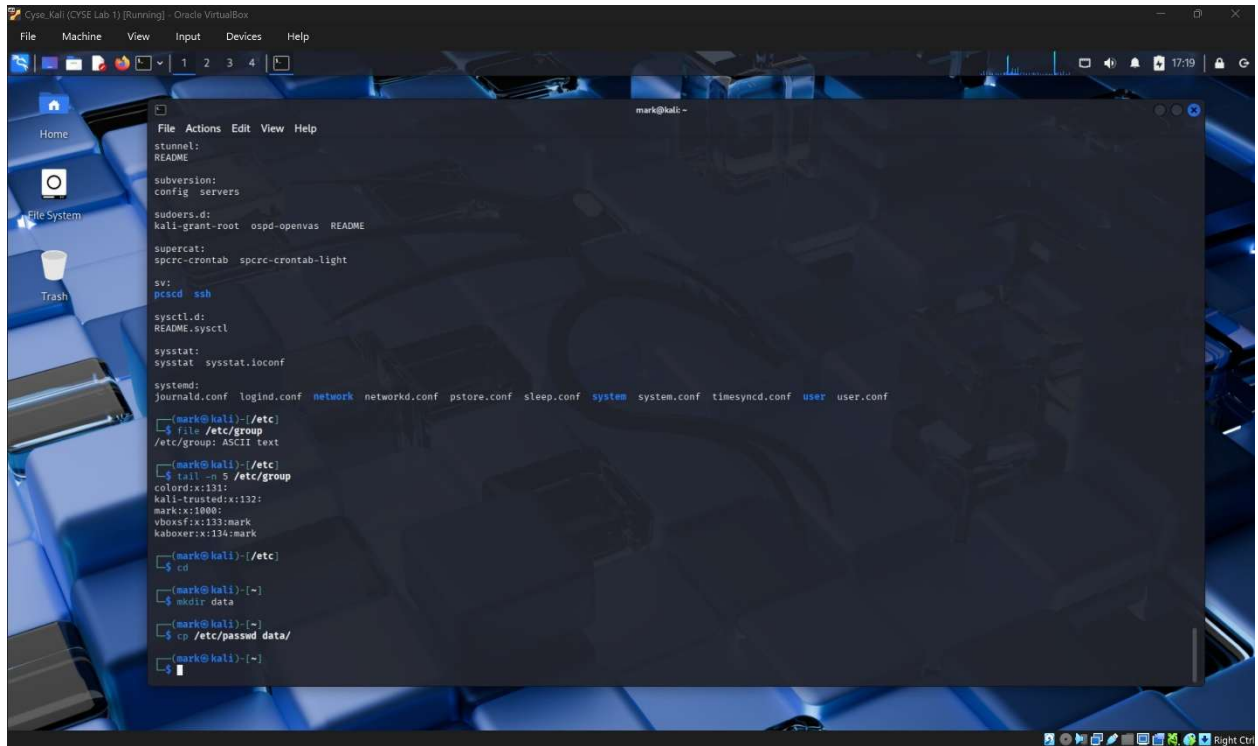
sysctl.d:
README.sysctl

sysstat:
sysstat sysstat.ioconf

systemd:
journal.conf logind.conf network networkd.conf pstore.conf sleep.conf system system.conf timesyncd.conf user user.conf

(mark@kali) ~$ cat /etc/group
/etc/group: ASCII text
(mark@kali) ~$ tail -n 5 /etc/group
colord:x:131:
kali-trusted:x:132:
mark:x:1000:
vboxsf:x:133:mark
kaboxer:x:134:mark
(mark@kali) ~$ cd
(mark@kali) ~$ mkdir data
(mark@kali) ~$
```

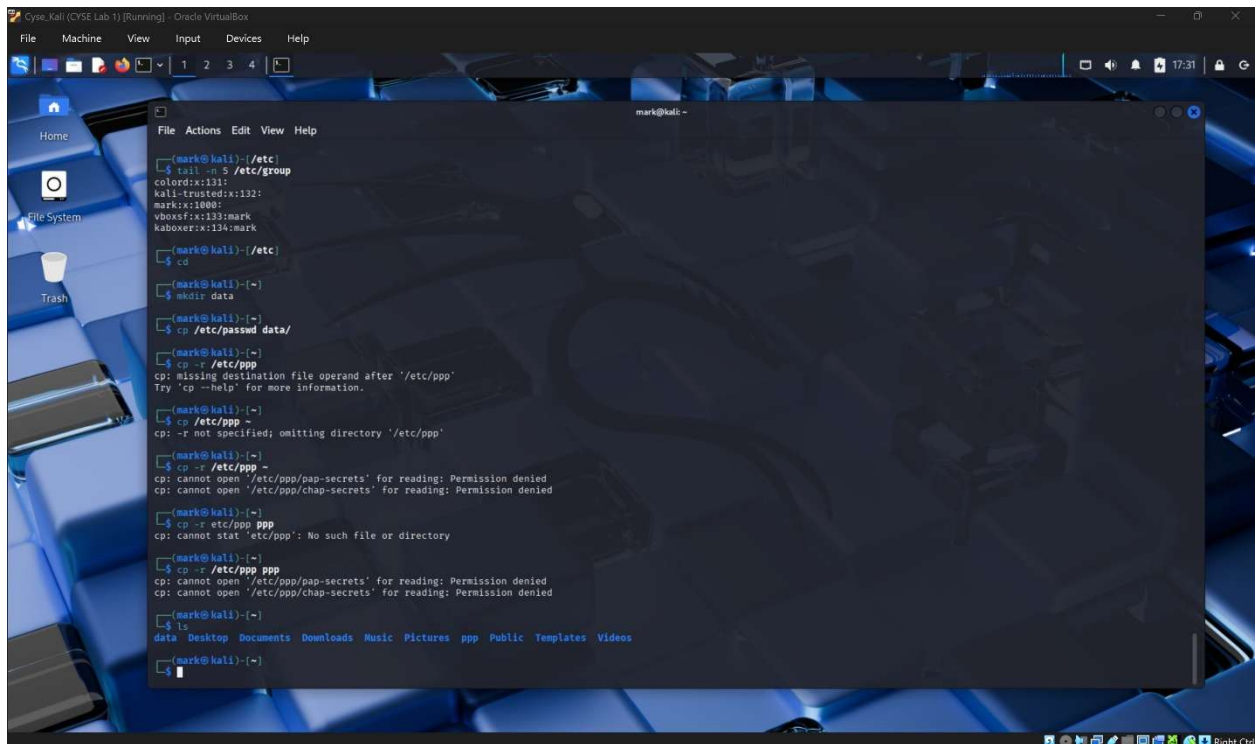

Step 13



The screenshot shows a Kali Linux desktop environment with a terminal window open. The terminal displays the following commands and output:

```
mark@kali: ~  
$ file /etc/group  
/etc/group: ASCII text  
$ tail -n 5 /etc/group  
colord:x:131:  
kali-trusted:x:132:  
mark:x:1000:  
vboxsf:x:133:mark  
kaboxer:x:134:mark  
$ cd  
$ mkdir data  
$ cp /etc/passwd data/  
$
```

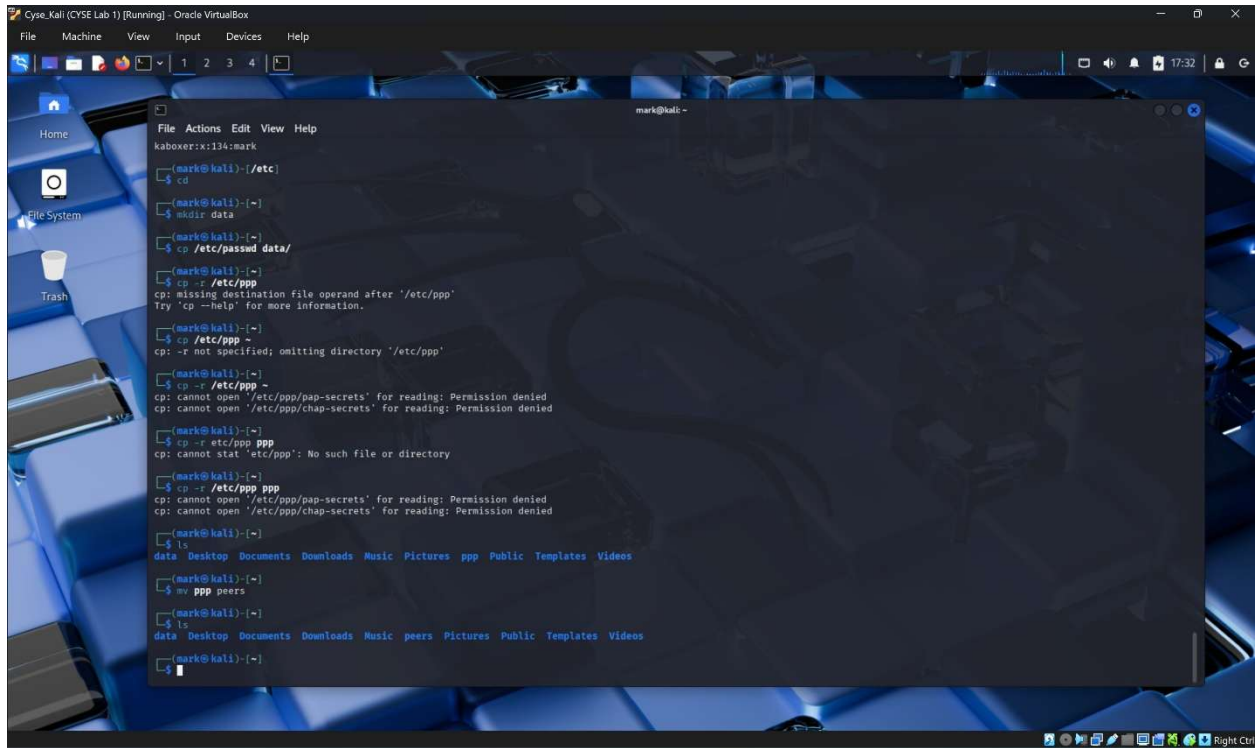
Step 14



The screenshot shows a Kali Linux desktop environment with a terminal window open. The terminal displays the following commands and output:

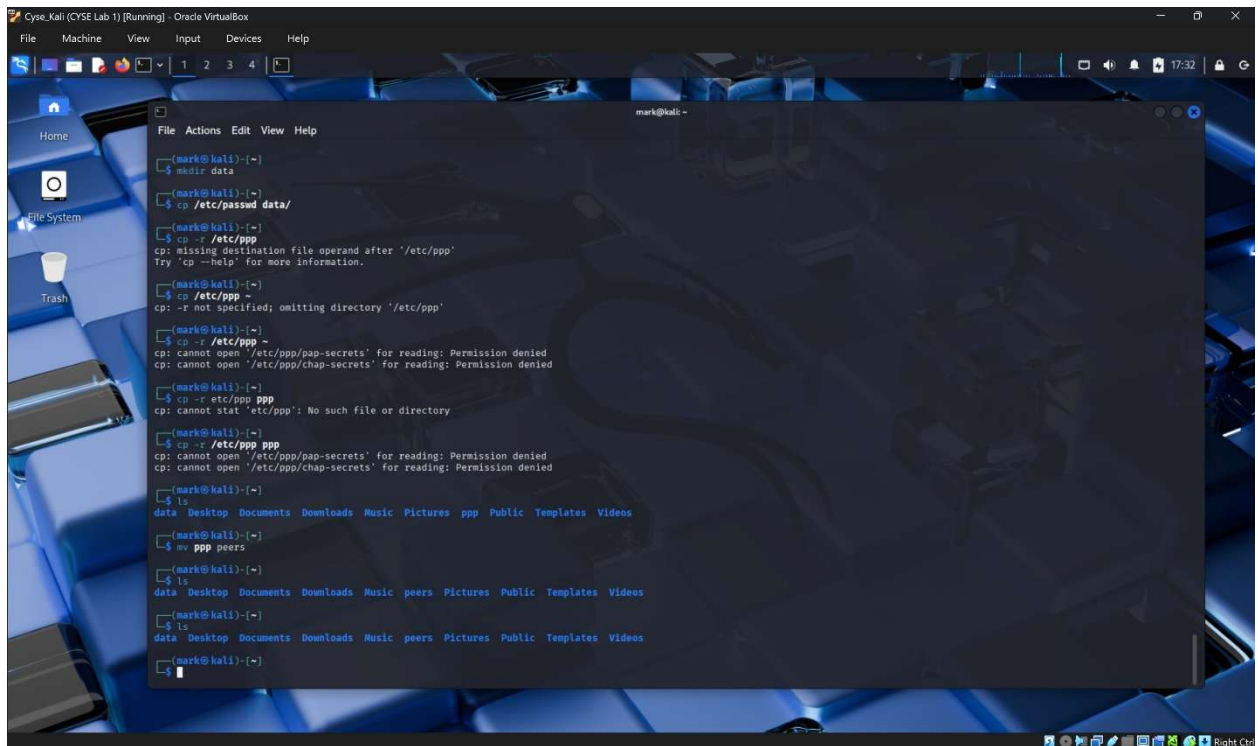
```
mark@kali: ~  
$ tail -n 5 /etc/group  
colord:x:131:  
kali-trusted:x:132:  
mark:x:1000:  
vboxsf:x:133:mark  
kaboxer:x:134:mark  
$ cd  
$ mkdir data  
$ cp /etc/passwd data/  
$ cp -r /etc/ppp  
cp: missing destination file operand after '/etc/ppp'  
Try 'cp --help' for more information.  
$ cp -r /etc/ppp -  
cp: -r not specified; omitting directory '/etc/ppp'  
$ cp -r /etc/ppp -  
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied  
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied  
$ cp -r /etc/ppp ppp  
cp: cannot stat '/etc/ppp': No such file or directory  
$ cp -r /etc/ppp ppp  
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied  
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied  
$ ls  
data Desktop Documents Downloads Music Pictures ppp Public Templates Videos  
$
```

Step 15



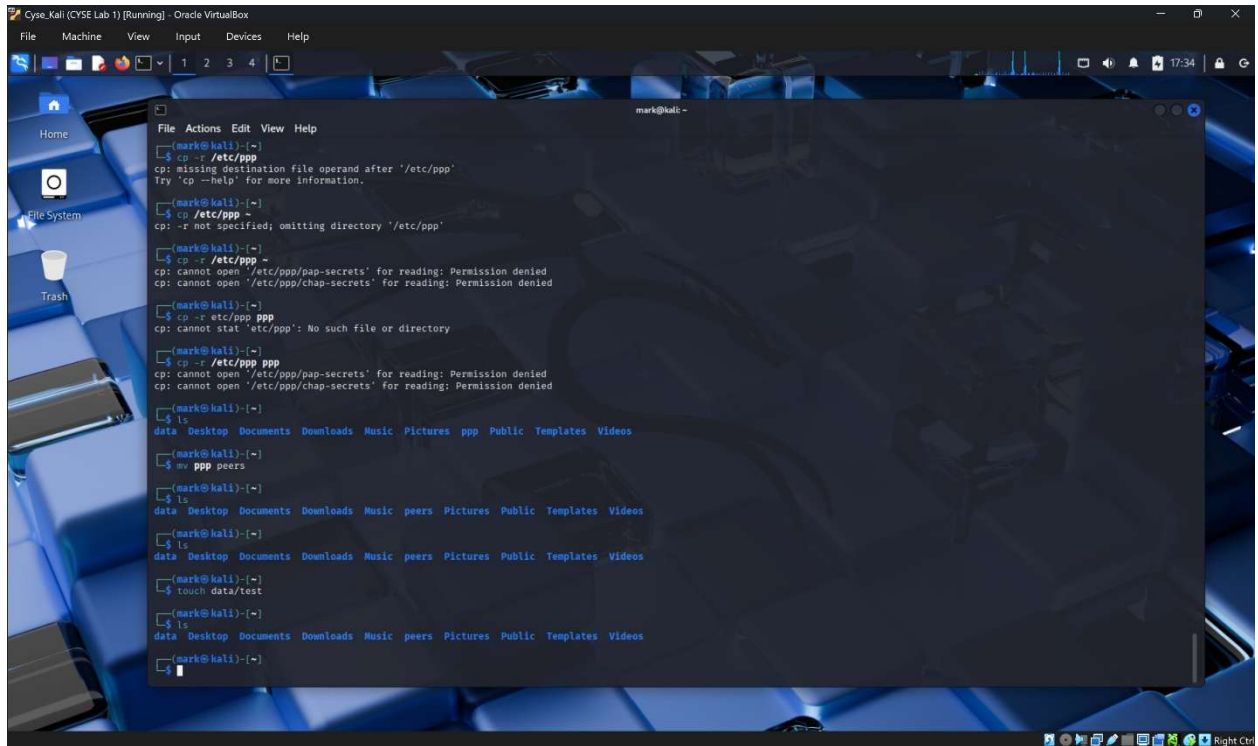
```
mark@kali:~$ cd /etc
mark@kali:~$ mkdir data
mark@kali:~$ cp /etc/passwd data/
mark@kali:~$ cp -r /etc/ppp
cp: missing destination file operand after '/etc/ppp'
Try 'cp --help' for more information.
mark@kali:~$ cp -r /etc/ppp -
cp: -r not specified; omitting directory '/etc/ppp'
mark@kali:~$ cp -r /etc/ppp ppp
cp: cannot open '/etc/ppp/ppp-secrets' for reading: Permission denied
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied
mark@kali:~$ cp -r /etc/ppp ppp
cp: cannot open '/etc/ppp/ppp-secrets' for reading: Permission denied
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied
mark@kali:~$ ls
data Desktop Documents Downloads Music Pictures ppp Public Templates Videos
mark@kali:~$ mv ppp peers
mark@kali:~$ ls
data Desktop Documents Downloads Music peers Pictures Public Templates Videos
```

Step 16



```
mark@kali:~$ mkdir data
mark@kali:~$ cp /etc/passwd data/
mark@kali:~$ cp -r /etc/ppp
cp: missing destination file operand after '/etc/ppp'
Try 'cp --help' for more information.
mark@kali:~$ cp -r /etc/ppp -
cp: -r not specified; omitting directory '/etc/ppp'
mark@kali:~$ cp -r /etc/ppp ppp
cp: cannot open '/etc/ppp/ppp-secrets' for reading: Permission denied
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied
mark@kali:~$ ls
data Desktop Documents Downloads Music Pictures ppp Public Templates Videos
mark@kali:~$ mv ppp peers
mark@kali:~$ ls
data Desktop Documents Downloads Music peers Pictures Public Templates Videos
```


Step 17



```
mark@kali:~$ cp -r /etc/ppp
cp: missing destination file operand after '/etc/ppp'
Try 'cp --help' for more information.

mark@kali:~$ cp /etc/ppp
cp: -r not specified; omitting directory '/etc/ppp'

mark@kali:~$ cp -r /etc/ppp
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied

mark@kali:~$ cp -r /etc/ppp ppp
cp: cannot stat '/etc/ppp': No such file or directory

mark@kali:~$ ls
data Desktop Documents Downloads Music Pictures ppp Public Templates Videos

mark@kali:~$ mv ppp peers

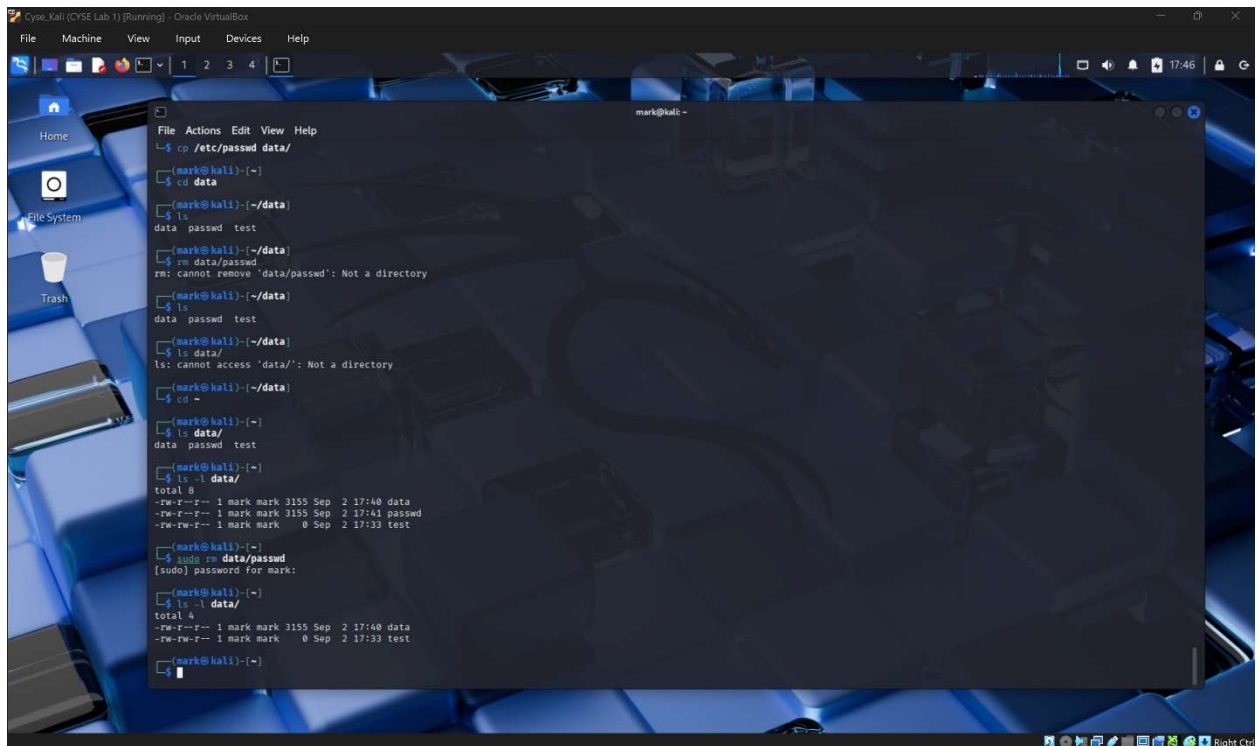
mark@kali:~$ ls
data Desktop Documents Downloads Music peers Pictures Public Templates Videos

mark@kali:~$ touch data/test

mark@kali:~$ ls
data Desktop Documents Downloads Music peers Pictures Public Templates Videos

mark@kali:~$
```

Step 18



```
mark@kali:~$ cp /etc/passwd data/
mark@kali:~$ cd data
mark@kali:~/data$ ls
data passwd test
mark@kali:~/data$ rm data/passwd
rm: cannot remove 'data/passwd': Not a directory
mark@kali:~/data$ ls
data passwd test
mark@kali:~/data$ ls data/
ls: cannot access 'data/': Not a directory
mark@kali:~/data$ cd -
mark@kali:~$ ls data/
total 8
-rw-r--r-- 1 mark mark 3155 Sep 2 17:40 data
-rw-r--r-- 1 mark mark 3155 Sep 2 17:41 passwd
-rw-rw-r-- 1 mark mark 0 Sep 2 17:33 test
mark@kali:~$ sudo rm data/passwd
[sudo] password for mark:
mark@kali:~$ ls -l data/
total 4
-rw-r--r-- 1 mark mark 3155 Sep 2 17:40 data
-rw-rw-r-- 1 mark mark 0 Sep 2 17:33 test
mark@kali:~$
```

Step 19

```
mark@kali: ~  
data passwd test  
mark@kali:~/data  
$ rm data/passwd  
rm: cannot remove 'data/passwd': Not a directory  
mark@kali:~/data  
$ ls  
data passwd test  
mark@kali:~/data  
$ ls data/  
ls: cannot access 'data/': Not a directory  
mark@kali:~/data  
$ cd ~  
mark@kali:~  
$ ls data/  
data passwd test  
mark@kali:~  
$ ls -l data/  
total 8  
-rw-r--r-- 1 mark mark 3155 Sep  2 17:40 data  
-rw-r--r-- 1 mark mark 3155 Sep  2 17:41 passwd  
-rw-rw-r-- 1 mark mark   0 Sep  2 17:33 test  
mark@kali:~  
$ sudo rm data/passwd  
[sudo] password for mark:  
mark@kali:~  
$ ls -l data/  
total 4  
-rw-r--r-- 1 mark mark 3155 Sep  2 17:40 data  
-rw-rw-r-- 1 mark mark   0 Sep  2 17:33 test  
mark@kali:~  
$ ls  
data Desktop Documents Downloads Music peers Pictures Public Templates Videos  
mark@kali:~  
$ rm -r peers  
mark@kali:~  
$ ls  
data Desktop Documents Downloads Music Pictures Public Templates Videos  
mark@kali:~
```

Step 20

```
mark@kali: ~  
rm: cannot remove 'data/passwd': Not a directory  
mark@kali:~/data  
$ ls  
data passwd test  
mark@kali:~/data  
$ ls data/  
ls: cannot access 'data/': Not a directory  
mark@kali:~/data  
$ cd ~  
mark@kali:~  
$ ls data/  
data passwd test  
mark@kali:~  
$ sudo rm data/passwd  
[sudo] password for mark:  
mark@kali:~  
$ ls -l data/  
total 4  
-rw-r--r-- 1 mark mark 3155 Sep  2 17:40 data  
-rw-rw-r-- 1 mark mark   0 Sep  2 17:33 test  
mark@kali:~  
$ ls  
data Desktop Documents Downloads Music peers Pictures Public Templates Videos  
mark@kali:~  
$ rm -r peers  
mark@kali:~  
$ ls  
data Desktop Documents Downloads Music Pictures Public Templates Videos  
mark@kali:~
```